TEJUS
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Test Report on Cement

Project	Providing Electrification Works and Amenites for Allalasandra Swimming Pool in Ward No 4
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s KRIDL, Bangalore
Sample ID	Cement
Date of Sample Tested	21.03.18
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	38 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	340 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	2mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	28.00%	25 % to 35

- Authorised Signatory

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Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

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Test Report on Cement

Project	Providing Electrification Works and Amenites for Allalasandra Swimming Pool in Ward No 4
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s KRIDL, Bangalore
Sample ID	Cement
Date of Sample Tested	21.03.18
Sample Supplied By	Agency

SLNo.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	32 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	330 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	2mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	29.00%	25 % to 35

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Project Division,
Yelahanka Zone
Bangalore

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TEST REPORT

Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Providing Electrification Works and Amenites for Allalasandra Swimming Pool in Ward No 4
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/s KRIDL, Bangalore

SPECIFIC GRAVITY AND WATER ABSORPTION FINE AGGREGATE (IS-2386-PART-3)

Type of Material	Fine aggregate (River Sand/ M sand)	**Proposed Use**	PCC
Location/Source	At Site/Plant	**Date of Sampling**	21.03.18
Period of Soaking	24 hours	**Date of Testing**	21.03.18

Sl. No.	Test Property	TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of sturated surface dry sample gm.	648	650	660	
B	Weight of oven - dry sample gm.	640	640	652	
C	Weight of Pycnometer Filled with water gm	1275	1275	1275	
D	Weight of Pycnometer + sample + water gm	1682	1685	1690	
E	Bulk specific gravity $\frac{B}{(C+A-D)}$	2.656	2.667	2.661	**2.661**
G	Absorption (%) $\frac{(A-B)*100}{B}$	1.250	1.563	1.227	**1.346**

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Providing Electrification Works and Amenites for Allalasandra Swimming Pool in Ward No 4
Consultants	Tejus Consultants, Bangalore
Contractor	M/s KRIDL, Bangalore

SIEVE ANALYSIS

Total Weight:	3000 gms				
Type of Material	Fine aggregate (River Sand/ M sand)		Proposed Use	PCC	
Sample Location	At Site/Plant		Date of Sampling	21.03.18	
			Date of Testing	21.03.18	
IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	208	208	6.93	93.07	90 - 100
2.36 mm	312	520	17.33	82.67	75 - 100
1.18 mm	410	930	31.00	69.00	55 - 90
0.600 mm	478	1408	46.93	53.07	35 -59
0.300 mm	721	2129	70.97	29.03	8-30
0.150 mm	624	2753	91.77	8.23	0 - 10
Pan	247	3000			-
					-

Remarks : Satisfactory / Not Satisfactory

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TEST REPORT

Client:	Bruhath Bangalore Mahanagara Palike
Project:	Providing Electrification Works and Amenites for Allalasandra Swimming Pool in Ward No 4
Consultants:	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor:	M/s KRIDL, Bangalore
Total Weight in gm:	3000

SIEVE ANALYSIS

Type of Material:	40 mm down size	Proposed Use	PCC
Sample Location:	At Site/Plant	Date of Sampling	21.03.18
		Date of Testing	21.03.18

IS Sieve Size	Weight Retained in gm	Cum. Weight Retained in gm	Cumulative Weight Retained in %	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA-2007) % of Passing For Graded Aggregate of Nominal Size
80.00mm	0	0	0.00	100.00	100
63.00mm	0	0	0.00	100.00	-
40.00mm	252	252	8.40	91.60	95-100
20.00mm	1120	1372	45.73	54.27	30-70
10.00mm	952	2324	77.47	22.53	10-35
4.75mm	442	2766	92.20	7.80	0-5
Pan	234	3000	100.00	0.00	

Remarks : Satisfactory / Not Satisfactory

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Test Report on Cement

Project	Providing Electrification Works and Amenites for Allalasandra Swimming Pool in Ward No 4
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s KRIDL, Bangalore
Sample ID	Cement
Date of Sample Tested	22.03.18
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	33 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	332 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	2 mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	27.00%	25 % to 35

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Test Report on Cement

Project	Providing Electrification Works and Amenites for Allalasandra Swimming Pool in Ward No 4
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/s KRIDL, Bangalore
Sample ID	Cement
Date of Sample Tested	22.03.18
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	37 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	330 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	3mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	29.00%	25 % to 35

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TEST REPORT

Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Providing Electrification Works and Amenites for Allalasandra Swimming Pool in Ward No 4
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/s KRIDL, Bangalore

SPECIFIC GRAVITY AND WATER ABSORPTION
FINE AGGREGATE (IS-2386-PART-3)

Type of Material	Fine aggregate (River Sand/ M sand)	Proposed Use	PCC
Location/Source	At Site/Plant	Date of Sampling	22.03.18
Period of Soaking	24 hours	Date of Testing	22.03.18

Sl. No.	Test Property	TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of sturated surface dry sample gm.	636	652	644	
B	Weight of oven - dry sample gm.	628	643	636	
C	Weight of Pycnometer Filled with water gm	1275	1275	1275	
D	Weight of Pycnometer + sample + water gm	1675	1685	1680	
E	Bulk specific gravity $\frac{B}{(C+A-D)}$	2.661	2.657	2.661	2.660
G	Absorption (%) $\frac{(A-B)*100}{B}$	1.274	1.400	1.258	1.310

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Providing Electrification Works and Amenites for Allalasandra Swimming Pool in Ward No 4
Consultants	Tejus Consultants, Bangalore
Contractor	M/s KRIDL, Bangalore

SIEVE ANALYSIS

Total Weight:	3000 gms				
Type of Material	Fine aggregate (River Sand/ M sand)		Proposed Use	PCC	
Sample Location	At Site/Plant		Date of Sampling	22.03.18	
			Date of Testing	22.03.18	
IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	218	218	7.27	92.73	90 - 100
2.36 mm	308	526	17.53	82.47	75 - 100
1.18 mm	411	937	31.23	68.77	55 - 90
0.600 mm	476	1413	47.10	52.90	35 -59
0.300 mm	718	2131	71.03	28.97	8-30
0.150 mm	624	2755	91.83	8.17	0 - 10
Pan	245	3000			-
Remarks :			Satisfactory / Not Satisfactory		

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TEST REPORT

Client:	Bruhath Bangalore Mahanagara Palike
Project:	Providing Electrification Works and Amenites for Allalasandra Swimming Pool in Ward No 4
Consultants:	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor:	M/s KRIDL, Bangalore
Total Weight in gm:	3000

SIEVE ANALYSIS

Type of Material:	40 mm down size			Proposed Use	PCC
Sample Location:	At Site/Plant			Date of Sampling	22.03.18
				Date of Testing	22.03.18
IS Sieve Size	Weight Retained in gm	Cum. Weight Retained in gm	Cumulative Weight Retained in %	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA-2007) % of Passing For Graded Aggregate of Nominal Size
40.00mm	0	0	0.00	100.00	100
20.00mm	0	0	0.00	100.00	-
10.00mm	262	262	8.73	91.27	95-100
4.75mm	1220	1482	49.40	50.60	30-70
2.36mm	932	2414	80.47	19.53	10-35
1.18mm	422	2836	94.53	5.47	0-5
Pan	164	3000	100.00	0.00	
Remarks:	Satisfactory / Not Satisfactory				

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